"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G. G.

(2)

The development of the electrical reaction of the retina in ontogenesis. G. G. Demirchoglyan and V. S. Mirzoyan (*C. R. Acad. Sci. U.S.S.S.*, 1953, **90**, 371–374).—The first sign of electrical activity in the rabbit eye, a slow positive wave on illumination, was found to appear on the 7th—10th day after birth. By the 18th–22nd day, the electroretinogram was not substantially different from that of the adult eye.

G. S. BRINDLEY.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G. G.

"The Fundamental Processes in an Optical Analyzer." Dr Biol Sci, Acad Med Sci USSR, 7 Dec 54. (VM, 25 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G. G.

DEMIRCHOGLYAN, G.G., kandidat biologicheskikh nauk.

Radioactive isotopes and their utilization in biology and medicine. Est. v shkole no.3:17-22 My-Je '54. (MLRA 7:7)

1. Akademiya nauk Armyanskoy S.S.R.
(Radioactive tracers) (Isotopes)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

ALEKSANYAN, A.M.; DEMIRCHOGLYAN, G.G.; ALLAKHVERDYAN, M.A.

New data on conditioned reflex changes in the visual analysor of man. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 7 no.9:57-67 S '54. (MLRA 9:8)

1. Institut fiziologii AN Arm. SSR.
(CONDITIONED RESPONSE) (SIGHT)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.; ZAKHARYAN, A.P.

Effect of electric (pain) stimulation of the skin on the functional properties of the retina. Dokl. AN Arm. SSR 18 no.4:125-128 '54. (MLRA 8:3)

1. Institut fiziologii Akademii nauk Armyanskoy SSR. Predstavleno G.Kh.Buniyatyanom.
(Retina) (Receptors (Neurology))

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

MELIK-MUS'YAN, B.N.; DEMIRCHOGLYAN, G.G.

Electroretinography in amblyopia and amaurosis. Dokl. AN Arm. SSR 19 no.3:79-81 '54. (MLRA 8:7)

1. Klinika glaznykh bolezney Yerevyanskogo meditsinskogo instituta i Institut fiziologii Akademii nauk Armyanskoy SSR. Predstavleno G.Kh. Bunyatyanom. (Skiascopy)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

ALEKSANYAN, A.M.; DEMIRCHOGLYAN, G.G.

The slow oscillations of electrical potentials in the visual analysor. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 8 no.2:67-76 F '55. (MLRA 9:8)

1. Institut fiziologii AN Arm. SSR.
(ELECTROPHYSIOLOGY) (RETINA) (CEREBRAL CORTEX)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DZHRBCHOGLYAN, Grant Gurgenovich; MARKOV, N.G., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor

[Physiology of analysers; a manual for teachers] Fiziologiia analizatorov; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 94 p. (MLRA 9:7)
(SENSE ORGANS)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G., kandidat biologicheskikh nauk.

Biological effect of radioactive radiations. Est.v shkole no.1: 11-14 Ja-F '56. (MLRA 9:5)

1. Akademiya nauk Armyanskoy SSR.
(Radioactivity--Physiological effect)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

MELIK-MUS'YAN, B.N.; DEMIRCHOGLYAN, G.G.

Some results and prospects in electroretinographic research. Izv.AN Arm.SSR. Biol. i sel'khoz.nauki 9 no.8:3-12 Ag '56. (MLRA 9:10)

1. Klinika glaznykh bolezney Yerevanskogo meditsinskogo instituta, fiziologii Akademii nauk Armyanskoy SSR.
(ELECTROPHYSIOLOGY) (RETINA)
(EYE--DISEASES AND DEFECTS)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G. G.

An article entitled "Light Sensitivity of Visual Analyzer Under Conditions of Cerebral Inhibition" by G. G. Demirchoglyan and M. A. Allakhverdyan of the Institute of Physiology, Academy of Sciences Armenian SSR, presents further studies on the conditioned reflex shifts of the visual analyzer of man as related to the cortical regulation of primary visual functions. Studies were made on the effect of various types of cortical inhibition on the light- sensitive function and on the course of unconditioned reflexes.

It was found that the successive action of conditioned stimulation without re-enforcement by light caused an increasingly slower decrease of light sensitivity, and, subsequently, light sensitivity even rose above the initial level established in the dark. This significant rise of light sensitivity of the rods always appeared as a result of the extinction of a formerly established conditioned reflex. Similar results were obtained against a background of extinguishing inhibition.

The authors conclude their article by saying that further research is necessary on the mechanism and the changes of photochemical processes of the retina (increased concentration of rhodopsin due to the development of extinguishing inhibition or a decreased degree of rhodopsin decomposition during illumination), but it is evident that the condition of the higher branches of the central nervous system are important for the effect of strong stimulation by light. (Doklady Akademii Nauk SSSR, Vol 109, No 1, 1956, pp 225-228) (U)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41747.

Author : Demirchoglyan, G. G.; Allakhverdyan, M. A.
Inst : Not Given.
Title : On the Analysis of the Alteration of Sensitivity to Light of the Optic Analyzer of Man Under Conditions of Cortical Excitation and Inhibition.

Orig Pub: V sb.: Vopr. Vyssh nervn deyat-sti i kompensatorn. prisbosoblenii (Problems of Higher Nervous Activity and Compensatory Adaptations) vyp 2 Arevan. AN Gruz SSR, 1957, 169-180.

Abstract: A conditioned reflex, lowering of sensitivity to light, was elaborated during dark adaptation after

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41747.

Abstract: 3-19 associations of light with a preceding buzzer. Upon extinction of this reflex, sensitivity to light increased. Cortical inhibition weakened the effect of light on the sensitivity of the retina. In directing the light upon one eye, conditioned reflex changes also spread to the other. It is postulated that the impulses from the CNS inhibit the function of the retina. In the various forms of cortical inhibition the retina frees itself from central influences. -- K. S. Ratner.

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

Demirchoglyan, G. G.

USSR/Human and Animal Physiology - The Sensory Organs. V-9

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18651

Author : B.N. Melik-Mus'yan and G.G. Demirchoglyan

Inst : The Republic Clinical Hospital of the Arminian SSR.

Title : Various Disturbances in Visual Function and its Restoration According to the Data of Clinical Electroretinography.

Orig Pub : Sb. nauchn. tr. Resp. klinich. bol'nitsy ArmSSR, 1957, 1, 559-567

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

USSR/Human and Animal Physiology - Sensory Organs. T-11

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32253

Author : Demirchoglyan, G.G., Adunts, G.T., Avakyan, Ts.M.
Inst : -Institut Fiziologii Akademii Nauk Armyanskoy SSR.
Title : Action of Radioactive Phosphorus on the Functional Dondition of the Retina of the Eye.

Orig Pub : Izv. AN ArmSSR. Biol. i s.-kh. M., 1957, 10, No 2, 3-13.

Abstract : Immersion of a preparation of an isolated frog eye in a solution of $Na_2HP^{32}O_4$ (strength not indicated) caused stronger depression of ERG than did immersion of the same in a solution of NA_2HPO_4. Sometimes depression of ERG preceded an increase. With subcutaneous introduction of $Na_2HP^{32}O_4$, impairments of the ERG (removed also from the isolated preparation) set in only through four to ten days after the introduction. In addition, the accumulation of P^{32} was the same in the retina of an exposed and unexposed eye.

Card 1/1

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN G. G.

LEBEDINSKIY, A. V., GRIGOR'YEV, Y. G. and DEMIRCHOGLYAN, G. G.

"The Biological Effect of Small Doses of Ionizing Radiation."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

SOV/89-5-5-11/15

AUTHORS: Lebedinskiy, A. V., Grigor'yev, Yu, G., Demirchoglyan, G. G.

TITLE: On the Biological Effect of Ionizing Radiation in Small Doses.I (O biologicheskom deystvii ioniziruyushchego izlucheniya v malykh dozakh)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 5, pp. 510-516 (USSR)

ABSTRACT: This is a summarizing account concerning the following Soviet papers: N. I. Nuzhdin, N. I. Shapiro et al.: Disturbance of the sexual cycle in female mice after a daily irradiation of C,1 r for a period of 15 months. G. S. Strelin: With a dose of 2 r a retardation of the mitosis of the epithelium of the cornea of rats at times occurs. N. P. Smirnova (Laboratory A. V. Lebedinskiy): Irradiation of 50 r causes a phase-modification of irritability in the various centers of hypothalamic areas during stimulation by an electric current. Yu. G. Grigor'yev: The functional state of the human cerebral cortex during a therapeutical irradiation of the head and of the abdomen (electroencephalographical method). A. B. Tsypin: Recording of the biological activity of the brain of hares during irradiation with a dosage of 0,13 to 0,03 r/sec (Method developed by M. N.

Card 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

Livanov). A. I. Danilenko, N. D. Stetsenko: Change of the frequency and amplitude of an electroencephalogram of a dog to which 0,1 to 1 mC/kg P^{32} is administered. I. K. Zyuzin: In the case of serious psychic diseases the cerebral cortex was found to become more sensitive already with respect to indicator doses of radioactive substances. Ye. S. London: The "light feeling" of the eyes as a result of the radiation of radioactive substances. Ts. M. Avakyan: The electroretinogram obtained after irradiation of the isolated eye of a frog with doses of 10 to 100 r. G. G. Demirchoglyan, G. T. Adanis, Ts. M. Avakyan: The influence of P^{32} on the functional properties of the retina of the eye of a frog. A. V. Lebedinskiy, G. G. Demirchoglyan: The influence exercised by small doses of radioactive strontium preparations upon the functional state of the retina. There are 3 figures and 33 references, 22 of which are Soviet.

(Continued on abstract 12/15)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

SOV/89-5-4-12/15

AUTHORS: Lebedinskiy, A. V., Grigor'yev, Yu. G., Demirchoglyan, G. G.

TITLE: On the Biological Effect of Ionizing Radiation in Small Doses. II (O biologicheskom deystvii ioniziruyushchego izlucheniya v malykh dozakh)

(Continued from abstract 11/15)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 3, pp. 316-320 (USSR)

ABSTRACT: A. V. Lebedinskiy, A. I. Peymer: The dependence of the regeneration and sensitivity of the retina on metabolic processes, especially on the carbon-water metabolism. A. V. Lebedinskiy, V. V. Yakovlev: Disturbed development of reflex-movement reactions (investigated in 300 embryos of rabbits). A. V. Lebedinskiy, Den Chzhi-chen: Decisive change of the nervous system of living beings that have been continuously fed with Sr^{90} during embryogenesis. V. A. Muzheyev: The influence of radon radiation upon the functional state of nerves and muscles. A. I. Danilenko, N. D. Stetsenko: The nerve-cords undergo a modification of functional properties under the effect of irradiation if the radiation dose exceeds 17 erg/mm^2. N. Ye. Vvedenskiy: The shortening of the duration of nerve reflexes as a result of small doses. V. N. Strel'tsova: If 1 500 - 1 800 μC Cs^{137} or

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On the Biological Effect of Ionizing Radiation in Small Doses.]]

Ru^{106} is administered to rats only once, the effect causing swelling is the same as if 150 - 160 μC/g were administered for a period of 100 days. N. A. Krayevskiy and N. N. Lisvinov obtained a similar result. There are 1 figure and 44 references, 22 of which are Soviet.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

COUNTRY	:	USSR
CATEGORY	:	Pharmacology and Toxicology. Narcotics and Hypnotics.
ABS. JOUR.	:	RZhBiol., No. 1 1959, No. 4447
AUTHOR	:	Demirchoglyan, G. G.; Dzhanpoladyan, L. M.;*
INST.	:	AS ArmSSR
TITLE	:	Contribution to the Study of the Effect of Small Doses of Cognac upon Certain Functions of the Organism
ORIG. PUB.	:	Aykakan SSR Gitutyunneri Akademiai tegekagir. Biologiakan ev gyukhatntesakan gitutynner,**
ABSTRACT	:	In healthy tested persons cognac alcohol (CA) caused a drop in photosensitivity of the eye (PE) adapted to darkness and an increase in the rate of the cardiac rhythm. The disturbances in the cardiac activity were less prolonged as compared with changes of PE. The same doses of CA

*Allakhverdyan, M. A.
**Izv. AN ArmSSR. Biol. i s.-kh. n., 1958, 11, No 2, 93-98

CARD: 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

Primary processes in the visual analyser. Probl.fiziol.opt. 12:89-99 '58 (MIRA 11:6)

1. Institut fiziologii Akademii nauk Arm. SSR.
(OPTICS, PHYSIOLOGICAL)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

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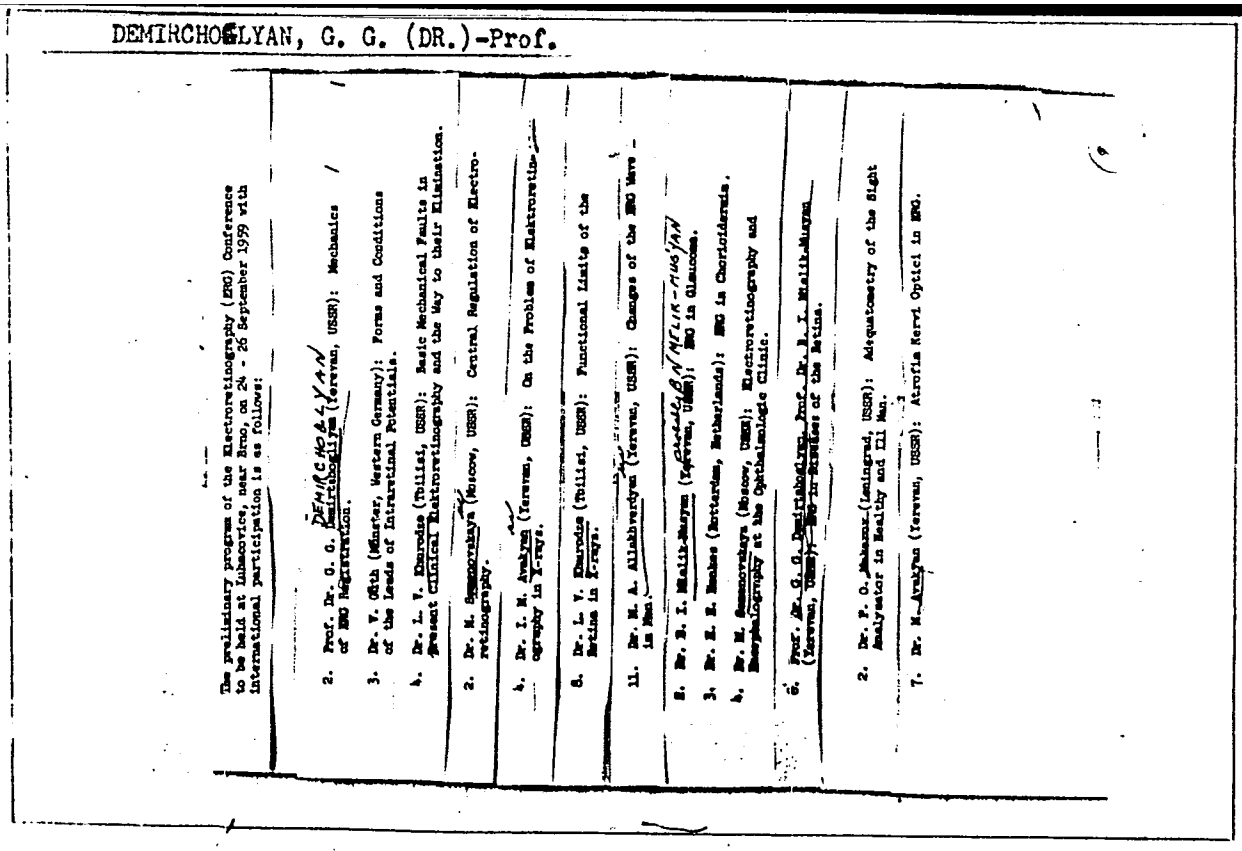

DEMIRCHOGLYAN, G. G. (DR.)-Prof.

The preliminary program of the Electroretinography (ERG) Conference to be held at Luhacovice, near Brno, on 24 - 26 September 1959 with international participation is as follows:

2. Prof. Dr. G. G. Demirchoglyan (Yerevan, USSR): Mechanics of ERG Registration.
3. Dr. V. Ott (Minster, Western Germany): Forms and Conditions of the Leads of Intraretinal Potentials.
4. Dr. L. V. Khurodze (Tbilisi, USSR): Basic Mechanical Faults in Present Clinical Elektroretinography and the Way to their Elimination.
2. Dr. M. Semenovskaya (Moscow, USSR): Central Regulation of Electroretinography.
4. Dr. I. M. Avakyan (Yerevan, USSR): On the Problem of Elektroretinography in X-rays.
6. Dr. L. V. Khurodze (Tbilisi, USSR): Functional Limits of the Retina in X-rays.
11. Dr. M. A. Alakhverdyan (Yerevan, USSR): Changes of the ERG Wave in Man.
8. Mr. B. I. Malik-Muryan (Yerevan, USSR): ERG in Glaucoma.
3. Mr. H. H. Henkes (Rotterdam, Netherlands): ERG in Chorioidermia.
4. Mr. M. Semenovskaya (Moscow, USSR): Electroretinography and Rheoophthalmography at the Ophthalmologic Clinic.
6. Prof. Dr. G. G. Demirchoglyan, Prof. Dr. B. I. Malik-Muryan (Yerevan, USSR): ERG in Diseases of the Retina.
2. Dr. F. O. Johannes (Leningrad, USSR): Adaptometry of the Light Analysator in Healthy and Ill Man.
7. Dr. M. Avakyan (Yerevan, USSR): Atrofia Nervi Optici in ERG.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, Grant Gurgenovich; MARKOV, N.G., red.; MAKHOVA, N.N., tekhn.red.

[Radioisotopes and radiation in biology] Radioizotopy i izlucheniia v biologii. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 59 p. (MIRA 13:4)
(RADIOBIOLOGY)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

Demirchoglyan, G.A.

21(4); 17(0) PHASE I BOOK EXPLOITATION SOV/2808

International Conference on the Peaceful Uses of Atomic Energy. 2d, Geneva, 1958

Doklady sovetskikh uchenykh; radiobiologiya i radiatsionnaya meditsina (Reports of Soviet Scientists; Radiobiology and Radiation Medicine) Moscow, Izd-vo Glav. upr. po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR, 1959. 429 p. 8,000 copies printed. (Series: Vtoraya Mezhdunarodnaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii. Trudy, tom 5)

General Ed.: A.V. Lebedinskiy, Corresponding Member, USSR Academy of Medical Sciences; Ed.: Z.S. Shirokova; Tech. Ed.: Ye.I. Mazel'.

PURPOSE: This book is intended for physicians, scientists, and engineers as well as for professors and students at vtuzes where radiobiology and radiation medicine are taught.

COVERAGE: This is Volume 5 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held on September 1-13, 1958, in Geneva. Volume 5 contains

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

32 reports edited by Candidates of Medical Sciences S.V. Levinskiy and V.V. Sedov. The reports cover problems of the biological effects of ionizing radiation, future consequences of radiation in small doses, genetic effects of radiation, treatment of radiation sickness, uses of radioactive isotopes in medical and biological research, uses of atomic energy for diagnostic and therapeutic purposes, soil absorption of uranium fission products, their intake by plants, and their storage in plants and foodstuffs. References accompany each report.

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Gulyakin, I.V., and Ye.V. Yudintseva. The Plant Intake of Strontium, Cesium, and Other Fission Products and Their Storage in the Crops (Report No. 2311) 357

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Tinyakov, G.G., and M.A. Arsen'yeva. Cytogenetic Effect of Ionizing Radiation in Nuclei of Monkey Germ Cells (Report No. 2476) 385

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DEMIRCHOGLYAN, G.G.

International symposium on electroretinography in Czechoslovakia.
Biofizika 5/ no.3:382-384 '60. (MIRA 13:7)
(ELECTRORETINOGRAPHY—CONGRESSES)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIROCHOGLYAN, G.G.

Symposium on electroretinography in Czechoslovakia. Izv. AN Arm.SSr.Biol.nauki 13 no.1:103-106 Ja '60. (MIRA 13:7)
(ELECTRORETINOGRAPHY--CONGRESSES)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

Mechanism of the origin of the electroretinogram. Biofizika 6 no. 2:249-252 '61. (MIRA 14:4)

1. Institut fiziologii AN Armyanskoy SSR, Yerevan.
(ELECTRORETINOGRAPHY)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

Role of retroactive connections in the action of analysors. Biofizika 6 no.4:499-502 '61. (MIRA 14:7)

1. Institut fiziologii imeni akademika L.A.Orbeli AN Armyanskoy SSR, Yerevan.
(SENSES AND SENSATION)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.; MASLOV, N.M.

Measurement of retinal impedance. Izv. AN Arm. SSR. Biol. nauki 14 no.8:81-83 Ag '61. (MIRA 14:9)

1. Institut fiziologii AN Armyanskoy SSR i Institut biofiziki AN SSSR.
(RETINA) (ELECTROPHYSIOLOGY)

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S/205/62/002/003/009/015
I015/I215

AUTHOR: Demirchoglyan, G.G., Allakhverdyan, M. A., Melik-Mus'yan, A. B., Ogandzhanyan, V. G., Pogosyan, R. I., Lalayan, A. A., Vasilyan, V. V.

TITLE: The effect of ionizing radiation on the retina and some light-sensitive systems

PERIODICAL: Radiobiologiya, v. 2, no. 3, 1962, 442–449

TEXT: Unlike in other studies, the effect of small radiation doses (10–50r, 125–900r) was here investigated in both acute and chronic experiments (during $1^1/_2$ years). Electroretinography (ERG) was performed with contact-lens-electrodes; intraretinal potentials were recorded with microelectrodes; SH-groups in the retina were determined amperometrically; the absorption spectra of rhodopsin extracted from the retina were established and both morphological and histochemical analyses were carried out. The radiosensitivity of light-sensitive organs in worms, of the compound-eye in insects, and of eyes in vertebrates, were compared. Chronic irradiation with small doses brought about an abnormal functional condition of the retina, and this effect had cumulative characteristics. The light-sensitive (chromatophore reaction) system in the skin of the frog turned out to be non-radiosensitive within the limits of 50–5000r. The studies of O. D. Hug on the direct effect of radiostimulation on tissues are mentioned. The role of SH-groups, included in the proteins of rhodopsin, for the light-sensitivity of the retina is discussed. There are 5 figures.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

ASSOCIATION: Institut fiziologii im. akad. L. A. Orbeli AN ArmSSR Yerevan (Institute of Physiology im. Academican L. A. Orbeli, AS ArSSR) Yerevan

SUBMITTED: September 13, 1960

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

ZIKEL',V.; DEMIRCHOGLYAN, G.G.

Significance of sulfhydryl groups in originating electrical reaction in the isolated retina of animals and man. Biofizika 7 no.2:225-226'62. (MIRA 16:8)

1. Fiziologicheskiy institut universiteta imeni K.Marksa, Leyptsig i Institut fiziologii imeni akademika L.A.Orbeli AN Armyanskoy SSR, Yerevan.
(ELECTRORETINOGRAPHY) (MERCAPTO GROUP)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.; BLAVATSKAYA, Ye.D.; ALLAKHVERDYAN, M.A.; MIRZA-AVAKYAN, I.I.

Possibility of the registration and preservation of the retinal bioelectric reaction in an enucleated human eye. Biofizika 7 no.6:719-724 '62. (MIRA 17:1)

1. Sektor radiobiologii AN ArmSSR i Yerevanskiy gosudarstvennyy meditsinskiy institut.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G., doktor biolog.nauk

Response to ionizing radiation. Priroda 51 no.5:111-112 My '62. (MIRA 15:5)

1. Institut fiziologii im. akademika L.Orbeli AN Armyanskoy SSR, Yerevan.

(RADIATION--PHYSIOLOGICAL EFFECT)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

The local flicker-electroretinography."

Report to be submitted for the Second meeting for the International Society for Electroretinography, Rotterdam, Netherlands, 12-14 Sept 63

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.; BLAVATSKAYA, Ye.D.; MIRZA-AVAKYAN, I.I.; GEVORKYAN, S.G.

Study of the effect of cysteine on some visual functions after pigmental degeneration of the retina. Izv. AN Arm. SSR. Biol. nauki 16 no.12:19-30 D '63. (MIRA 17:2)

1. Klinika glaznykh bolezney Yerevanskogo instituta usovershenstvovaniya vrachey, otdel biofiziki i bioniki AN Armyanskoy SSR.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, Grant Gurgenovich; SHEVELEV, I.A., red.

[Physiology and pathology of the retina; primary mechanisms of vision] Fiziologiia i patologiia setchatki glaza; pervichnye mekhanizmy zreniia. Moskva, Meditsina, 1964. 142 p. (MIRA 17:10)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G., prof.

Physiological Institute of the K. Marx University in Leipzig (German Democratic Republic). Izv. AN Arm. SSR. Biol. nauki 17 no.2:101-104 F '64. (MIRA 17:8)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G., prof.

Second symposium on problems of electroretinography in Erivan. Izv. AN Arm. SSR. Biol. nauki 18 no.4:90-92 Ap '65. (MIRA 18:5)

1. Predsedatel' Organizatsionnogo komiteta II Simpoziuma po probleman elektroretinografii v Yerevane.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, G.G.

Second symposium on problems of electroretinography in Erevan.
Biofizika 10 no.3:557 '65. (MIRA 18:11)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

ACC NR: AT6036549 SOURCE CODE: UR/0000/66/000/000/0149/0150

AUTHOR: Demirchoglyan, G. G.

ORG: none

TITLE: New data on the mechanism of effect of ionizing radiation on the functional state of the retina [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 149-150

TOPIC TAGS: cosmic radiation biologic effect, space medicine, vision, rhodopsin, retina, electroretinogram

ABSTRACT: Determination of the effects of radiation on human visual functions is of paramount importance for manned spaceflight. The radiation effect on the retina is characterized by direct stimulation of photoreceptors, with accompanying development of bioelectrical reactions. Even the smallest radiation doses substantially affect retinal photosensitivity and other visual functions.

Experimenta were conducted to determine the effect of ionizing radiation on various aspects of retinal activity, especially the causes of its high radiosensitivity. Retinal activity under these conditions was compared with optic-nerve activity, and the radiosensitivity of the visual photopig-

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ACC NR: AT6036549

ments was studied. Spectrophotometry of rhodopsin (visual purple) demonstrated the possibility of change in its content without change in its molecular structure, especially during irradiation of the pigment in the regina. Study of the content of sulfhydryl groups in rhodopsin solutions (extracted from frog retinas) by the method of amperometric titration showed a decrease in sulfhydryl content without a corresponding change in the process of liberation of SH groups from rhodopsin molecules. Irradiation of rabbit retinas caused definite morphological and histochemical changes, indicating the disruption of some metabolic processes; at the same time, functional shifts were observed in electroretinograms.

In spite of the occurrence of changes, the irradiated visual system retained its capacity to perceive and process visual information. This ability is clearly shown by the retention of impulsation in the optic nerve of frogs after intense irradiation of the visual system. These data agree with recent American studies, which also demonstrated the high radioresistance of the optic nerve. Future studies by this research team will be concerned with the minute changes occurring in the retina at the moment of irradiation. In order to conduct these studies, a method of remote registration of ERG's for use in radiation conditions has been developed. [W.A. No. 22; ATD Report 66-116]

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

MYASNIKOVA, I. G., SHUKUNYAN, S. S., PARAKONYAN, P. A., [illegible], and KYANDARYAN, K. A.

"Changes in the Blood and Blood-Forming Organs, and Some Biochemical Indices in the Experimental Duplication of Radiation Sickness." a report presented at the Transcaucasian Radiological Conference, Tbilisi, 28-31 Oct 55.

Sum. No. 1047, 31 Aug 56

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4204

Author : Demirchoglyan, I.G.
Inst : -
Title : A Study of the Action of a New Preparation of the Group of Chlorethylamines (Preparation No 12) in Experimental Leukoses.

Orig Pub : V sb.: Vopr. rentgenol. i onkol. T. 2. Yerevan, 1957, 333-339

Abstract : Preparation No 12 (I) was administered intra-abdominally to mice of the afb line with inoculated leukosis upon the 7-8th day following the inoculation (when the tumor reached the size of a pea) for a duration of 8 days in a dose of 0.2 mg/kg. I was also administered to mice with spontaneous leukosis following the same method. Of 25 mice of the 1st group, 3 perished on the 25th day, and at this time thettumor either decreased or recessed in

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USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4204

the remainder. During the same time, in the controls 4 out of 9 mice died, the tumors increased to the size of a chestnut in 3 and resolved in 2. Some shrinking of the dimensions of the tumors, and an increase in the average life duration was also noted in mice with spontaneous leukosis under the effect of I. -- O.V. Zubova

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4205

Author : Demirchoglyan, I.G.
Inst : -
Title : Experimental Study of Preparation No 12 of the Group of Chlorethylamines

Orig Pub : V sb.: Vopr. rentgenol. i onkol. T. 2. Yerevan, 1957, 341-356

Abstract : The action of the preparation No 12 (I) upon hemopoiesis, motor action of the stomach and cardiac activity was studied. Experiments on the effect of I upon hemopoiesis were carried out on rabbits; I was injected into the auricular vein for a period of 8 days in doses of 0.1-0.2 or 0.5 mg/kg in 24 hours. Leukopenia and aplasia of the blood-forming organs develops in rabbits. With either dose the leukopenia was more remarkable when the number of leukocytes in the peripheral blood was greater before

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USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4195

Author : Papoyan, S.A., Movsesyan, M.A., Demirchoglyan, I.G.
Inst : -
Title : On the Problem of the Mechanism of the Action of Enbichine

Orig Pub : V sb.: Vopr. rentgenol. i onkol. T. 2. Yerevan, 1957, 367-371

Abstract : The effect of enbichine No 4 (E) upon the bone-marrow blood formation of the posterior extremities of a rabbit was studied following preliminary section of the lower segments of the spinal cord. It was demonstrated that the depression of blood formation was significantly weaker in the experiment than in the control. E was injected into the otic vein in a single dose of 0.5 mg/kg (for dogs) and 0.25 mg/kg (for rabbits). The number of leukocytes in the peripheral blood increased sharply within 5 minutes and 1 hour following the injection of E;

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USSR/General Problems of Pathology - Tumors. Experimental Therapy. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4195

it decreases within a few hours, and at the end of the day it was smaller than 24 hours before. Following a few daily injections a conditioned reflex developed in the experimental animals - the number of leukocytes decreased in the same order with injections of physiological solution. On the basis of this, the authors concluded that an important role is played by neuroreflex factors in the mechanism of the action of E. -- O.V. Zubova

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

PAPOYAN, S.A.; ALLAVERDYAN, S.N.; DEMIRCHOGLYAN, I.G.; YERZINKYAN, I.A.

Use of fibrin films in the treatment of skin lesions from irradiation [with summary in English]. Med.rad. 2 no.6:61-65 N-D '57. (MIRA 11:2)

1. Iz Nauchno-issledovatel'skogo instituta rentgenologii, radiologii i onkologii Ministerstva zdravookhraneniya Armyanskoy SSR i Nauchno-issledovatel'skogo instituta perelivaniya krovi Ministerstva zdravo-okhraneniya Armyanskoy SSR.

(ROENTGEN RAYS, eff.
exper. skin lessions in rabbits, eff. of fibrin membranes on healing)
(SKIN, eff. of radiations on
x-ray induced lesions in rabbits, eff. of fibrin membranes on healing)
(HEMOSTATICS, eff.
fibrin membranes, on healing of x-ray induced skin lesion sin rabbits)

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[redacted]

[redacted] I.S., Cand Vet Sci--(diss) "Testing the method of [redacted] derivatives chlorethylamine (preparation No A(12)4) [redacted] by examination of labor[illegible]-ing [illegible] the possibility [illegible] by [illegible] mal[illegible]-ria." Yaroslavl, 1958. 16 pp (Min of Health RSFSR, Yaroslavl State Inst of Pharmacology and Chemistry), 200 copies (KL,22-58,107)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

PAPOYAN, S.A., starshiy nauchnyy sotrudnik; DEMIRCHOGLYAN, I.G., kand.med.nauk; SHUKURYAN, S.G., mladshiy nauchnyy sotrudnik

State of proteinases in threatment with fluorometasarcolysine. Vop.rent.i onk. 6:175-178 '61. (MIRA 16:2)
(PROTEINASE) (SARCOLYSINE)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

PAPOYAN, S.A., starshiy nauchnyy sotrudnik; SHUKURYAN, S.G., mladshiy nauchnyy sotrudnik; DEMIRCHOGLYAN, I.G., kand.med.nauk

Effect of fluorine derivatives of alylamines on some biochemical blood indices. Vop.rent.i onk. 6:187-192 '61. (MIRA 16:2)
(BLOOD—ANALYSIS AND CHEMISTRY) (CYTOTOXIC DRUGS)

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[redacted]

PARIYAN, S.A., prof.; [redacted]

...roblem of heterotransplantation of tumors in man. [redacted]
...onk. 28(6-15) '63

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

DEMIRCHOGLYAN, I. D. Cand Biol Sci -- (diss) "Test of the effect of ~~derivative~~ chloroethylamine (preparation No 12) upon the organism of laboratory animals, and the possibility of ~~their application~~ administration in cases of leukemia and lymphogranulomatosis." Yerevan, 1957. 12 pp (Min of Health Armenian SSR. Inst of Roentgenology and Oncology), 150 copies (KL, 6-58, 100)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

OGANESYAN, A.S.; DEMIRCHYAN, A.A.

Glucose transport regulation in a brain cell. Dokl. AN Arm. SSR 40 no.5:285-288 '65. (MIRA 18:7)

1. Institut biokhimii AN ArmSSR. Submitted January 29, 1965.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

OGANESYAN, A.S.; DEMIRCHYAN, A.A.; KAZAROVA, Ye.K.

Interrelationship between insulin and strophantin in the process of glucose transport. Izv. AN Arm. SSR. Biol. nauki 18 no.4:3-8 Ap '65. (MIRA 18:5)

1. Institut biokhimii AN Armyanskoy SSR.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8"

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OGANESYAN, A.S.; DEMIRCHYAN, A.A.

Effect of insulin on the reabsorption of glucose and sodium in the kidneys. Vop. biokhim. 3:147-158 '63. (MIRA 17:12)

1. Institute of Biochemistry, Academy of Sciences of the Armenian S.S.R., Erevan.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310110007-8

SOV/110-58-10-11/24

AUTHOR: Demirchyan, G.G. (Engineer)

TITLE: Electro-magnetic processes in magnetized current transformers. (Elektromagnitnyye protsessy v podmagnichivayemykh transformatorakh toka)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No. 10. pp. 37-41 (USSR)

ABSTRACT: Three-phase amplidynes with parallel load are often used in current-control circuits, particularly for field control of small alternators. This article analyses the electro-magentic processes in an amplidyne and current transformer built as a single element and magnetized. The object of the work was to investigate the operating conditions of current transformers with various degrees of magnetization; to study the laws of variation of magnetic flux, current and voltage under different conditions; and to determine the relationship between the mean secondary current and the magnetization current with constant primary current. The assumptions made in the theoretical investigations are explained. Either of the amplidynes may be saturated or unsaturated, but it is shown that with magnetization, all three phases of the device cannot be unsaturated simultaneously. The condition is then considered in which one phase is saturated and the other two are not. Flux-linkage equations have to be formulated in order to determine the current. This is done and an equation for the current is given. Curves of primary and secondary current, flux-

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Electro-magnetic processes in magnetized current transformers.

linkage and secondary voltage for a particular case are given in Fig.2. Corresponding experimental curves of secondary current and voltage appear in Fig.3. Calculated current values for this condition in which one phase is saturated are given in Table.1. The case is then considered in which two phases are saturated and one is not. Again current equations are derived and the lower limit of magnetization at which this condition obtains is determined. Wave-shapes of the primary and the secondary current, voltage and flux-linkage are calculated and given in Fig.4. The corresponding secondary current and voltage curves, determined experimentally, are drawn in Fig.3. Calculated data for this condition with two phases saturated are recorded in Table.2. Next, the case is considered in which all three phases are saturated. The secondary currents and voltages are always zero. Various combinations of the previously considered conditions are then treated and calculated graphs of wave-shape and tables of calculated data are given as before. The relationship between the mean relative current and the degree of magnetization with primary d.c. is plotted in Fig.7. Tests were made to verify the calculated results. The construction of the equipment is described. The experimental results are also plotted in Fig. 7. There is some difference between practice and theory for high values of

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Electro-magnetic processes in sub-magnetised current transformers.

magnetisation. This is because of the properties of the magnetic circuit of the equipment tests and because of the assumptions made for the purposes of the calculations. Otherwise agreement is excellent. There are 7 figures, 4 tables and 2 literature references (1 German and 1 English)

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